

S4826	16	271	Jan.16	Jan.15	Jan.16
S4827	17-18	162-170	Jan.24	Jan.11	Jan.24
S4828	15	252	-	Jan.22	Jan.22
S4829	13	162	-	Jan.22	Jan.22
S4830	13-20	88-109	Jan.28	Jan.22	Feb. 3
S4831	18-23	49-62	Feb. 1	Jan.26	Feb. 6
S4832	14-15	155-159	-	Jan.27	Jan.29
S4833	19-22	109-113	Jan.28	Jan.28	Feb. 2
S4834	20	137	-	Jan.29	Jan.30
S4835	16	131	-	Jan.29	Jan.29
S4836	22-23	355-356	Feb. 5	Jan.31	Feb.11

J 2 B 2 - A 1

A 1

A 1

A 3 - F34 F38 F41 F51 F43 F48 C40 C22 C10 D 6 A 2
D 9 E19 E23 E16 E23 E33 E32 D29 D22 C16 J 7 A 3
A 1 C 5 C 3
C 8 D13 D10 C 6 D 6 J 2
J 2 A 1
A 1
J 2 J 2 J 2 J 2 J 4 J 2 J 2 J 2 - J 2 - A 1

TABLE OF SUNSPOT GROUPS

Heliographic			FEBRUARY 1989			E-Side			W-Side		
Group NO.	Latitude	Longitude	C.M. Passage	First Obs.	Last Obs.						
N5345	8-10	92-95	-	Feb. 2	Feb. 2				B 3		
N5346	24	6	-	Feb. 2	Feb. 3	J 2 J 2					
N5347	18	81-86	-	Feb. 3	Feb. 3				B 2		
N5348	36	72	-	Feb. 3	Feb. 4				J 2 A 1		
N5349	20-22	29-33	Feb. 3	Feb. 3	Feb. 7	J 2			D 6 C 7 C 6 J 3		
N5350	15-17	318-328	Feb. 8	Feb. 3	Feb. 13	C 7 D 6 B 7 B 5 C 4			- D 9 - D11 D 5 D 4		
N5351	11-12	345-348	-	Feb. 4	Feb. 5	C 3 J 3					
N5352	28	321	-	Feb. 4	Feb. 4	A 1					
N5353	24-33	271-293	Feb. 11	Feb. 5	Feb. 15	H 8 E26 F43 - F49 -			F53 F57 F44 F36 F26		
N5354	16-23	265-272	Feb. 12	Feb. 6	Feb. 15	A 1 D 5 - C17 - C14			C 4 C 5 J 3 A 1		
N5355	9	335	Feb. 7	Feb. 7	Feb. 7				A 1		
N5356	15	279	-	Feb. 9	Feb. 9				A 1		
N5357	11-17	240-245	Feb. 14	Feb. 9	Feb. 20	D 7 - D23 D27 D25			D24 D19 - - - A 1		
N5358	28	227	Feb. 15	Feb. 11	Feb. 15	J 2 J 2 J 2 J 2			A 1		
N5359	20	258	-	Feb. 12	Feb. 12	A 1					
N5360	17-20	193-205	Feb. 17	Feb. 12	Feb. 22	D 8 D10 E14 E16 -			- - - J 2 - A 1		
N5361	21-23	240-245	Feb. 14	Feb. 14	Feb. 15	D10 D11					
N5362	26	209	Feb. 17	Feb. 14	Feb. 20	J 2 A 1 -			- - J 2		
N5363	30	184-185	-	Feb. 15	Feb. 15	A 2					
N5364	13-18	131-144	Feb. 22	Feb. 20	Feb. 28	E18 - E39 E37 -			- - - E14 D 4		
N5365	13-15	110-118	-	Feb. 27	Mar. 2				D 8 D 9 - J 2		
N5366	10-12	44-55	Feb. 28	Feb. 27	Mar. 6	E15 J 6 -			C10 J 4 - J 2		
N5367	15-19	38-46	Mar. 1	Feb. 27	Mar. 6	J 2 .. -			D27 D21 - - D 5		
N5368	37-38	42-45	-	Feb. 28	Feb. 28	C 3					
S4837	18	348	-	Feb. 1	Feb. 3	J 2 A 1 A 1					
S4838	25-28	337-340	Feb. 7	Feb. 1	Feb. 7	J 2 J 2 J 2 J 3 J 4 D 7			C 6		
S4839	13-15	335-341	Feb. 7	Feb. 1	Feb. 7	J 2 J 2 D 7 C 5 J 2 A 1			A 1		
S4840	5-7	29-34	Feb. 3	Feb. 2	Feb. 4	D 5 C 8			B 5		
S4841	25-26	76-77	-	Feb. 3	Feb. 4				A 3 A 1		
S4842	29-32	294-295	Feb. 10	Feb. 4	Feb. 14	C 3 D 4 D 4 C 3 - D 5			- C 6 J 2 J 2 A 1		
S4843	31	316	-	Feb. 9	Feb. 9				A 1		
S4844	28	307-310	Feb. 9	Feb. 9	Feb. 11				B 5 - A 1		

S4845	14-21	235-252	Feb.14	Feb. 9	Feb.20	E20	-	E36	E38	F49	F54	F44	-	-	-	-	C 4	
S4846	16	324	-	Feb.11	Feb.11								A 1					
S4847	37-40	319-320	-	Feb.13	Feb.13												B 3	
S4848	27	252	-	Feb.15	Feb.15								A 1					
S4849	20	209	-	Feb.15	Feb.15				A 1									
S4850	11-15	161-174	Feb.20	Feb.15	Feb.23	A 1	-	-	-	-	E24	-	E34	E38				
S4851	19-24	140-150	Feb.21	Feb.15	Feb.27	A 1	-	-	-	-	C 9	-	C 9	C10	-	-	-	A 1
S4852	13-14	158-159	Feb.20	Feb.20	Feb.22						A 4	-	A 1					
S4853	9-10	97-105	Feb.25	Feb.20	Feb.28	C 3	-	D11	D10	-	-	-	J 3	J 2				
S4854	29	136	-	Feb.23	Feb.23								A 1					
S4855	13	138	-	Feb.27	Feb.27												A 1	
S4856	16-17	104-106	-	Feb.27	Feb.27								A 2					
S4857	24-26	62-68	Feb.28	Feb.27	Feb.28					D 9	C 5							
S4858	18-22	42-52	Mar. 1	Feb.27	Mar. 3					D19	E22	-	C16	D 7				

TABLE OF SUNSPOT GROUPS

MARCH 1959

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side				C.M.	W-Side								
	Latitude	Longitude																	
N5369	20-24	351-360	Mar. 5	Mar. 2	Mar. 10		D17	D19	-	-	D12	-	C 5	C 5	A 2				
N5370	11	344-347	-	Mar. 3	Mar. 3			C 4											
N5371	22-26	284-294	Mar. 10	Mar. 6	Mar. 12		D 9	-	D16	D14	D21	D12	B 7						
N5372	25-33	247-263	Mar. 12	Mar. 6	Mar. 19	A 2	-	H32	H43	H53	H52	H75	-	F78	F68	F62	F59	F39	C 9
N5373	31-32	238-245	Mar. 14	Mar. 8	Mar. 19	C 3	J 3	C 3	J 2	J 2	-	C 7	C 8	C 4	J 2	J 2	J 2		
N5374	9	292-294	-	Mar. 9	Mar. 9					D 7									
N5375	28-32	280-283	Mar. 11	Mar. 10	Mar. 12					A 2	A 1	A 1							
N5376	11-12	216-219	-	Mar. 10	Mar. 14		J 2	J 2	J 2	-	C 5								
N5377	15	276-279	-	Mar. 14	Mar. 14									C 3					
N5378	15-17	203-209	Mar. 16	Mar. 14	Mar. 21				J 2	D 6	C14	D15	D12	C 6	C 4	A 1			
N5379	28-31	172-175	Mar. 19	Mar. 14	Mar. 20	J 4	D 5	D 6	J 5	C 8	J 5	C 5							
N5380	13-20	134-144	Mar. 21	Mar. 16	Mar. 26	C 5	C 9	H10	C17	H25	H31	E40	-	-	E40	C23			
N5381	13	213-214	-	Mar. 17	Mar. 18							J 3	J 2						
N5382	13	202	-	Mar. 17	Mar. 17							A 1							
N5383	9-13	123-132	Mar. 22	Mar. 17	Mar. 26	J 2	C 6	C 7	C14	C18	C13	-	-	J 2	J 2				
N5384	21	199-200	-	Mar. 18	Mar. 18							A 2							
N5385	23-24	201-205	-	Mar. 21	Mar. 22														
N5386	13-17	112-120	Mar. 23	Mar. 22	Mar. 26					B 4	-	-	C 8	A 1				D 4	D 4
N5387	12-13	56-57	Mar. 27	Mar. 22	Apr. 2	J 2	-	-	J 2	J 2	-	-	J 2	J 2	-	J 2	J 2		
N5388	20-21	27-32	Mar. 30	Mar. 25	Apr. 4	C 3	J 2	-	-	J 3	J 2	-	C 6	C 3	-	J 2			
N5389	13	7	-	Mar. 29	Mar. 29					A 3									
N5390	19	338	-	Mar. 29	Mar. 30		J 2	J 2											
N5391	15-17	335-338	Apr. 3	Mar. 30	Apr. 4	A 4	-	C 5	C 3	-	A 1								
S4859	18-20	352-354	-	Mar. 2	Mar. 2					C 3									
S4860	24	323	-	Mar. 3	Mar. 3					A 1									
S4861	10-12	209-296	Mar. 10	Mar. 6	Mar. 12		C 4	-	J 2	C 5	C 5	..	A 1						
S4862	32-35	251-260	Mar. 12	Mar. 8	Mar. 14		D 9	D12	D16	D12	C 8	-	J 2						
S4863	15-20	234-244	Mar. 14	Mar. 9	Mar. 19	D 7	D11	D21	D24	-	E26	E21	E20	G 7	J 4	J 4			
S4864	27	293	-	Mar. 11	Mar. 11							A 1							
S4865	20-22	260-265	Mar. 12	Mar. 12	Mar. 12						B 2								
S4866	39	247	-	Mar. 12	Mar. 12						A 2								
S4867	13-17	172-180	Mar. 18	Mar. 12	Mar. 22	J 2	-	C 6	C10	C15	C21	C19	C14	C12	C12	C 3			

S4868	18	252	-	Mar.14	Mar.14																
S4869	18	221	Mar.15	Mar.14	Mar.21																
S4870	40	241	-	Mar.15	Mar.15																
S4871	15-16	226-228	-	Mar.16	Mar.16																
S4872	17	149	-	Mar.16	Mar.16																
S4873	12-13	124-128	-	Mar.18	Mar.18																
S4874	17-20	160-165	Mar.20	Mar.20	Mar.22																
S4875	20-21	149-152	Mar.20	Mar.20	Mar.21																
S4876	25-29	62-74	Mar.26	Mar.20	Apr. 2																
S4877	16	154	-	Mar.21	Mar.21																
S4878	29	81	-	Mar.25	Mar.25																
S4879	18-19	53-55	Mar.28	Mar.25	Mar.29																
S4880	22-24	62-66	-	Mar.29	Mar.30																
S4881	17-22	299-318	Apr. 4	Mar.29	Apr. 9																

A 2 J 2 A 2
 A 1 A 1 A 1 A 1 J 2 J 2
 A 1
 A 2
 A 1
 B 3
 D13 D15 D11
 C 7 C 5
 C 4 E16 - - - E27 E29 - - E19 D 9 - C 3 D 5
 A 1
 A 1
 J 2 A 2 - - A 1
 C 3 B 5
 A 1 G11 - F37 F44 - F54 F45 F31 F33 - G13 -

TABLE OF SUNSPOT GROUPS

APRIL 1939

Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side				C.M.	W-Side					
Group NO.	Latitude				Longitude										
N5392	35	307	-	Apr. 1	Apr. 2	A 1 A 1									
N5393	10	291	-	Apr. 1	Apr. 2	A 1 A 1									
N5394	15-16	279-287	Apr. 7	Apr. 5	Apr. 9	B 5 D 9 D 9				-	C 6				
N5395	31-35	225-234	Apr. 11	Apr. 5	Apr. 13	J 2 J 4 J 6	-	D 13	-	-	D 12 D 3				
N5396	16-17	330-332	-	Apr. 6	Apr. 7						A 1 A 2				
N5397	7	318	-	Apr. 6	Apr. 6						J 2				
N5398	27	322-326	-	Apr. 7	Apr. 9						D 5 - D 5				
N5399	28-30	311-312	-	Apr. 7	Apr. 9						A 2 - A 1				
N5400	27	264	-	Apr. 7	Apr. 7						A 1				
N5401	18-22	203-210	Apr. 12	Apr. 7	Apr. 13	A 1	-	D 5	-	-	D 6	B 3			
N5402	36	238	-	Apr. 9	Apr. 9						J 2				
N5403	13-15	140-141	Apr. 17	Apr. 12	Apr. 22	J 2 J 2	-	-	-	J 2	J 2 J 2 J 3	J 2 J 2			
N5404	14-16	199-203	Apr. 13	Apr. 13	Apr. 19					A 4	-	-	D 8 D 6 J 3		
N5405	7-11	119-135	Apr. 18	Apr. 13	Apr. 25	D 8	-	-	-	F 32	F 29	F 31 F 33 F 40	F 24 - - J 2		
N5406	18	138	-	Apr. 17	Apr. 17						A 2				
N5407	15-18	76-87	Apr. 22	Apr. 17	Apr. 25	J 2 C 7 D 10	D 9	C 12	C 9	-	-	C 6			
N5408	30-32	39-41	Apr. 25	Apr. 19	Apr. 30	J 3 H 3 H 5	J 4	-	-	J 4	-	J 2 C 6	J 3 J 2		
N5409	5	165	-	Apr. 20	Apr. 20						A 1				
N5410	28-29	143-152	-	Apr. 20	Apr. 22						B 7 D 8 D 5				
N5411	10-12	331-339	Apr. 30	Apr. 25	Apr. 30	C 5	-	C 6 B 6	B 3	B 5					
N5412	24-28	345-350	Apr. 29	Apr. 29	May 4					D 4	C 5 - B 2 C 6 C 4				
N5413	23-28	258-270	-	Apr. 30	May 4	J 3	-	E 24 E 23	C 31						
S4882	27	307	-	Apr. 1	Apr. 1	A 1									
S4883	30	298	-	Apr. 2	Apr. 2	A 1									
S4884	22-23	270-280	-	Apr. 2	Apr. 9	B 2	-	D 7 J 2	..	..	- B 5			
S4885	11-13	290-297	Apr. 6	Apr. 4	Apr. 9	C 5 D 4				D 10	D 11 - J 2				
S4886	15-17	250-253	Apr. 9	Apr. 4	Apr. 13	J 2 J 2 J 2	J 3	-	J 4	-	- C 6 C 5				
S4887	19-20	239-240	-	Apr. 5	Apr. 5	A 2									
S4888	16-17	269-273	Apr. 8	Apr. 6	Apr. 12	C 5 D 10				-	D 7 - - A 2				
S4889	18-20	249-254	Apr. 9	Apr. 6	Apr. 9	A 1 A 4				-	C 7				
S4890	30	248	-	Apr. 12	Apr. 12						A 1				
S4891	19-25	151-165	Apr. 16	Apr. 12	Apr. 22	C 6 D 7	-	-	-	E 29 E 32 E 33	C 14 C 7 C 4				

TABLE OF SUNSPOT GROUPS

Heliographic			MAY 1989				E-Side				W-Side						
Group NO.	Latitude	Longitude	C.M. Passage	First Obs.	Last Obs.					C.M.							
N5414	27	306-309	May 2	May 2	May 2					B 2							
N5415	19-20	294-296	-	May 2	May 2					A 2							
N5416	16-24	78-96	-	May 24	May 24						F38						
N5417	13	75	-	May 24	May 24						J 3						
N5418	31-32	45-47	-	May 24	May 24						A 2						
N5419	21	18-22	May 24	May 24	May 24					B 4							
N5420	17-21	292-300	May 30	May 24	Jun. 4	J 2	-	-	-	H11	-	H10	C 7	C 7	-	C 9	J 7
N5421	25-27	296-299	May 30	May 24	Jun. 4	J 2	-	-	-	J 2	-	C.4	C 4	J 2	-	J 2	C 3
N5422	10	17-20	-	May 28	May 28						D 5						
N5423	23	306	May 29	May 28	May 30					A 1	-	A 1					
N5424	17-19	234-237	-	May 30	Jun. 1	B 3	D 6	C 5									
N5425	17-20	224-228	Jun. 4	May 30	Jun. 7	J 3	J 3	J 4	-	C 7	C 8	-	-	A 2			
N5426	13-15	233-237	Jun. 4	May 31	Jun. 7					C 5	C 7	-	J 2	C 4	-	A 2	
S4902	22-23	234-242	-	May 2	May 4	J 2	J 3	C 6									
S4903	22	296	-	May 4	May 4					A 1							
S4904	16-18	70-79	-	May 24	May 24						D12						
S4905	6	63	-	May 24	May 24						A 1						
S4906	26-27	54-55	-	May 24	May 24						J 2						
S4907	16-18	44-45	-	May 24	May 24						A 7						
S4908	17-22	23-39	-	May 24	May 28					F59	-	-	-	F30			
S4909	17	332	-	May 24	May 24						A 1						
S4910	18-20	321-322	May 28	May 24	May 30					J 4	-	-	-	J 6	-	A 2	
S4911	25	308	-	May 24	May 28	A 1	-	-	-	A 1							
S4912	18-23	302-306	May 29	May 24	Jun. 4	H 7	-	-	-	C16	-	C12	C 7	C 7	-	J 2	J 2
S4913	19-11	14-20	-	May 28	May 30						J 2			-	C 3		
S4914	15-16	323-326	May 28	May 28	Jun. 3					C 4	-	B 2		-	J 2
S4915	19-23	278-286	May 31	May 28	Jun. 4					J 2	-	D19	D28	D27	-	D28	C24
S4916	18	273	Jun. 1	May 28	Jun. 1	A 2	-	A 1							
S4917	19	313	-	May 30	May 30						A 1						
S4918	21-23	288-294	May 30	May 30	Jun. 4					D 9	C14	D15	-	D15	D 8		
S4919	16	267	-	May 30	May 31					A 1	A 1						
S4920	24	304	-	May 31	May 31						J 2						

TABLE OF SUNSPOT GROUPS

AUGUST 1939

Group NO.	Lat- tude	Longi- tude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
N5475	17-10	200-217	-	Aug. 3	Aug. 4			C11 C 4
N5476	10-13	155-160	Aug. 3	Aug. 3	Aug. 5		B 3 .. A 2	
N5477	8-11	136-142	Aug. 4	Aug. 3	Aug. 9		A-4 D 8 D 9 - -	C 4 J 2
N5478	24-25	132-138	-	Aug. 3	Aug. 4		B 3 B 4	
N5479	13-15	91-93	Aug. 9	Aug. 3	Aug. 13	J 2 J 2 J 2 - -	C 3	J 2 J 2 - J 2 J 2
N5480	21-24	103-107	-	Aug. 4	Aug. 5			C 3 D11
N5481	17	03	-	Aug. 4	Aug. 5	A 1 A 1		
N5482	19	97	-	Aug. 5	Aug. 5		A 1	
N5483	12-13	35-37	Aug. 12	Aug. 9	Aug. 12	J 3 J 5 C 7 -	B 5	
N5484	11-12	26-29	Aug. 13	Aug. 9	Aug. 17	J 4 C 4 J 2 - J 2	C 3	- - - A 1
N5485	24	29	-	Aug. 8	Aug. 19	A 1 A 1 .. - ..	..	- - - A 2 J 2 A 1
N5486	20	93	-	Aug. 9	Aug. 9		A 1	
N5487	26-28	351-361	Aug. 15	Aug. 9	Aug. 22	J 4 J 5 - C 5 C 5 -	-	- J 2 J 2 J 2 J 2 - J 2
N5488	27	36	-	Aug. 10	Aug. 10		A 1	
N5489	12-13	353-356	-	Aug. 12	Aug. 13		D 6 B 2	
N5490	11-21	318-331	Aug. 17	Aug. 12	Aug. 24	D16 E29 - - -	E32	E77 E85 E70 - E27 C11 J 2
N5491	16	31	-	Aug. 13	Aug. 13		A 1	
N5492	17-18	336-338	Aug. 17	Aug. 13	Aug. 19	J 3 - - -	J 6	J 5 A 1
N5493	20-21	302-307	Aug. 19	Aug. 13	Aug. 24	J 2 - - - C 3 C 4	C 3 C 4	- A 2 A 3 A 2
N5494	25-29	295-304	Aug. 19	Aug. 13	Aug. 25	H 2 - - - C14 C21	C12 C15	- D19 D 8 D 7 J 6
N5495	6	357	-	Aug. 17	Aug. 17			A 1
N5496	8-10	329-331	Aug. 17	Aug. 17	Aug. 17		B 5	
N5497	17-19	306-313	Aug. 19	Aug. 17	Aug. 25		C10 D14 D18	C13 - C 6 J 2 J 3 A 2
N5498	26-29	270-278	-	Aug. 17	Aug. 20	D 5 D 6 D 7 C 3		
N5499	39	318	Aug. 19	Aug. 18	Aug. 19		A 1	
N5500	23	291-295	Aug. 20	Aug. 19	Aug. 24		D 5 D 5	- J 2 J 2 A 1
N5501	14	260	-	Aug. 19	Aug. 23	J 2 .. - ..	..	A 1
N5502	27	15	-	Aug. 20	Aug. 20			
N5503	16-18	345-353	-	Aug. 22	Aug. 22			A 1
N5504	22	273	-	Aug. 22	Aug. 22			C 6
N5505	23-24	182-185	Aug. 29	Aug. 22	Aug. 31	J 2 J 2 J 2 J 2 - -	-	C 4 - J 2
N5506	28	331-336	-	Aug. 23	Aug. 23			B 2
N5507	24	230-233	-	Aug. 23	Aug. 24		B 3 J 2	
N5508	13	234-236	Aug. 24	Aug. 24	Aug. 25		D 4 D 5	

N5509	13	177	Aug.29	Aug.24	Aug.29
N5510	22-23	130-135	-	Aug.29	Aug.29
N5511	30-31	94-102	Sep. 4	Aug.29	Sep. 5
S4963	37-40	210-217	-	Aug. 3	Aug. 5
S4964	6	162	Aug. 3	Aug. 3	Aug. 3
S4965	5- 6	154-156	Aug. 3	Aug. 3	Aug. 5
S4966	24-25	149-152	Aug. 3	Aug. 3	Aug. 5
S4967	13	139-143	-	Aug. 3	Aug. 5
S4968	25-28	128-136	Aug. 5	Aug. 3	Aug.10
S4969	13-17	104-110	Aug. 6	Aug. 3	Aug.12
S4970	17-19	92-98	Aug. 8	Aug. 3	Aug.13
S4971	15-21	68-83	Aug. 9	Aug. 4	Aug.13
S4972	26-29	63-69	Aug.10	Aug. 5	Aug.10
S4973	10-21	122-128	-	Aug. 9	Aug.10
S4974	25-27	71-73	Aug. 9	Aug. 9	Aug.13
S4975	12-15	33-47	Aug.12	Aug. 8	Aug.17
S4976	11-12	68-73	-	Aug.12	Aug.13
S4977	22-24	301-305	Aug.19	Aug.13	Aug.25
S4978	13	251	-	Aug.18	Aug.20
S4979	18-20	239-249	Aug.23	Aug.19	Aug.25
S4980	18	234	-	Aug.22	Aug.22
S4981	20-22	225-229	Aug.25	Aug.22	Aug.29
S4982	15	242	-	Aug.23	Aug.23
S4983	17-18	153-161	Aug.30	Aug.24	Aug.31
S4984	13	233-236	-	Aug.25	Aug.25
S4985	27	215-217	-	Aug.25	Aug.25
S4986	12-22	68-97	Sep. 4	Aug.29	Sep.12
S4987	23-28	123-125	Sep. 2	Aug.31	Sep. 5

A 1	..	-	-	-	A 1
			A 1		
C 4	-	D 4	-	-	- A 2
					D 6 D 7 J 2
					A 1
					J 5 A 5 A 3
					A 2 B 4 B 3
				B 3	B 4
		A 4	C 12	C 8	- - D 14 C 9 J 4
		G 3	G 5	G 19	- - G 13 G 8 J 4 - G 5
J 5	C 8	C 6	-	J 3	J 4 J 3 - J 2 J 2
H 2	H 20	-	-	H 49	H 46 H 46 - H 36 H 33
A 1	-	-	C 8	C 5	B 2
					A 1 C 9 J 2
				J 4	J 4 J 3 - J 3 J 2
				E 16	E 19 E 14 - E 13 E 16 - - J 4
					C 7 B 4
J 2	-	-	-	H 4	H 2 H 4 H 5 - H 3 H 2 H 2 H 2
A 1	J 2	A 2			
	J 2	C 4	-	E 7	G 7 G 5 G 6
				A 1	
		J 3	C 4	C 6	A 2 - - - C 3
				A 1	
J 2	J 3	-	-	D 7	- D 4
					B 3
				A 2	
H 6	-	F 41	-	-	F 90 - F 72 - F 45 E 17 J 3
					C 14
					- - - D 6

TABLE OF SUNSPOT GROUPS
SEPTEMBER 1989

Group No.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side				C.M.	W-Side									
	Latitude	Longitude																		
N5512	16-17	117-120	-	Sep. 5	Sep. 5															
N5513	21-24	47-59	Sep. 7	Sep. 5	Sep. 12				E25	-	-	D26	-	D21	D 9	H 5				
N5514	23-28	13-29	Sep. 9	Sep. 5	Sep. 15			D 8	-	-	F22	-	F32	F40	C23	-	C 3			
N5515	13-18	350-	1 Sep. 11	Sep. 5	Sep. 18	J 3	-	-	E21	-	E38	F32	E26	-	-	E14	-	C 3		
N5516	27	45	Sep. 8	Sep. 8	Sep. 8							A 1						C 3		
N5517	22-23	32-35	Sep. 9	Sep. 8	Sep. 15						C 7	-	J 3	A 1	A 2	-	-	J 2		
N5518	5-8	2-8	Sep. 11	Sep. 8	Sep. 12				D10	-	C11	C 9	C10							
N5519	14-17	1-10	Sep. 11	Sep. 8	Sep. 15				J 2	-	D16	D20	D22	-	-	D 5				
N5520	16-21	341-347	Sep. 12	Sep. 8	Sep. 12				C 4	-	C11	C14	B 9							
N5521	27-28	341-345	-	Sep. 8	Sep. 11				C 3	-	J 2	A 1								
N5522	14-17	330-336	Sep. 13	Sep. 8	Sep. 20				A 1	-	C10	D13	D 8	-	D18	-	-	D19	-	J 3
N5523	14-19	323-329	Sep. 14	Sep. 8	Sep. 18	D11	-	D26	D26	D28	-	-	D10	-	-	C 4				
N5524	20-22	311-319	Sep. 15	Sep. 10	Sep. 20	J 2	C 9	D12	-	-	-	D 8	-	-	J 2	-	J 2			
N5525	23	320	-	Sep. 11	Sep. 12				A 1	A 1										
N5526	23-25	278-290	Sep. 17	Sep. 12	Sep. 21	J 2	-	-	D13	-	-	D14	-	E13	E 8					
N5527	26-33	345-357	-	Sep. 15	Sep. 18									B 2	-	-	E 9			
N5528	27-28	277-280	-	Sep. 20	Sep. 21									C 4	J 2					
N5529	13-15	235-238	-	Sep. 20	Sep. 20						B 4									
N5530	21	265	-	Sep. 24	Sep. 24													J 2		
N5531	33	187-188	Sep. 24	Sep. 24	Sep. 24							A 2								
S4988	13-15	63-68	-	Sep. 10	Sep. 12													C 6	C 7	A 3
S4989	12-14	314-327	Sep. 14	Sep. 10	Sep. 20				C15	E15	E13	-	-	G 7	-	-	J 2	-	J 2	
S4990	23	301	-	Sep. 11	Sep. 12	A 1	A 1													
S4991	9-10	346-349	Sep. 12	Sep. 12	Sep. 12							C 5								
S4992	15	231	-	Sep. 18	Sep. 20				A 1	-	A 1									
S4993	23-29	211-224	Sep. 22	Sep. 18	Sep. 25				E22	-	F40	E42	-	-	E32	E27	E30			
S4994	18-20	241-247	Sep. 20	Sep. 20	Sep. 21							D 7	D 4							
S4995	25	205	-	Sep. 20	Sep. 20															
S4996	21-22	134-188	Sep. 24	Sep. 20	Sep. 25				A 1											
S4997	15-17	209-214	-	Sep. 24	Sep. 25				A 3	J 5	-	-	C 4	D 6	C 3					
S4998	11-12	114-120	Sep. 30	Sep. 25	Oct. 5	J 3	D11	-	-	-	-	-	-	D 4	B 3					
S4999	21	175	-	Sep. 26	Sep. 26													J 2	J 2	
												A 1								

TABLE OF SUNSPOT GROUPS

OCTOBER 1939

Group No.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side						C.M.	W-Side							
	Latitude	Longitude																		
N5532	12-13	43-51	Oct. 5	Oct. 4	Oct. 5							C 4	J 3							
N5533	15	43-50	-	Oct. 4	Oct. 9							B 3	..	-	-	-	A 1			
N5534	27-29	42-50	Oct. 5	Oct. 4	Oct. 10							D 6	C 6	-	-	-	J 2	J 2		
N5535	21-23	43-45	Oct. 5	Oct. 4	Oct. 10							J 4	J 2	-	-	-	J 4	J 2		
N5536	12-14	26-31	-	Oct. 4	Oct. 5							D 7	D 8							
N5537	16-19	354-359	Oct. 9	Oct. 4	Oct. 15	J 2	J 2	-	-	-	C 5	C 6	-	-	-	J 2	J 2	J 2		
N5538	25-26	1-7	Oct. 9	Oct. 4	Oct. 13		J 2	J 3	-	-	-	C 5	J 4	-	-	-	J 3			
N5539	23-23	346-357	Oct. 9	Oct. 4	Oct. 13	E19	E20	-	-	-	E29	E17	-	-	-	A 1				
N5540	30-33	332-339	Oct. 10	Oct. 4	Oct. 10	A 1	D 4	-	-	-	D 8	D 6								
N5541	13	349	-	Oct. 5	Oct. 5							A 1								
N5542	13-16	322-327	Oct. 11	Oct. 5	Oct. 17	J 2	-	-	-	C 4	J 4	-	-	-	J 2	C 4	D14	-	D 6	
N5543	20-23	290-294	-	Oct. 9	Oct. 13		C 4	D 4	-	-	A 1									
N5544	25-26	268-274	Oct. 15	Oct. 10	Oct. 19	A 2	-	-	..	..	B 3	-	C 3	J 3				
N5545	12-15	266-276	Oct. 15	Oct. 10	Oct. 21	C 4	-	-	C 9	C13	D16	-	C 7	C 7	-	J 3	J 3			
N5546	21	356	-	Oct. 13	Oct. 14												J 3	A 1		
N5547	9-13	291-300	Oct. 13	Oct. 13	Oct. 19							D27	D19	D20	-	D16	D 8			
N5548	20-22	269	Oct. 15	Oct. 13	Oct. 15							A 2	J 3	A 1						
N5549	3	289-291	Oct. 14	Oct. 14	Oct. 14							C 3								
N5550	11-12	238-244	Oct. 17	Oct. 17	Oct. 18							C 5	B 3							
N5551	17-19	214-218	-	Oct. 17	Oct. 17							B 4								
N5552	10	126	-	Oct. 21	Oct. 22		A 1	A 1												
N5553	23-24	158-161	Oct. 24	Oct. 22	Oct. 25							A 1	C 4	J 2	A 1					
N5554	13	245-251	-	Oct. 23	Oct. 23													C 4		
N5555	10-12	145-153	Oct. 24	Oct. 24	Oct. 30							D11	D13	D15	D20	D13	D 7	C 3		
N5556	30-31	106-112	Oct. 27	Oct. 26	Oct. 28							C 4	C 6	A 1						
N5557	23	38-39	-	Oct. 27	Oct. 30		J 2	J 4	J 3	J 3										
N5558	18-21	76-85	Oct. 30	Oct. 28	Nov. 5							D10	D17	D24	-	-	-	C 4	-	J 2
N5559	28-29	137-144	-	Oct. 29	Oct. 30													D 6	C 3	
N5560	31	98	-	Oct. 29	Oct. 29							A 1								
N5561	19-27	1-12	Nov. 4	Oct. 29	Oct. 11	B 4	C16	-	-	-	E44	-	E50	E39	-	-	-	J 2		
N5562	23	84	-	Oct. 30	Oct. 30							A 1								
N5563	18-23	16-27	Nov. 3	Oct. 30	Nov. 6							D 5	-	-	-	C15	-	C17	E11	
N5564	25	353	-	Oct. 30	Nov. 6	A 1	-	-	-	J 2	-	..	A 1							
N5565	18	352-355	Nov. 5	Oct. 30	Nov. 6	J 2	-	-	-	J 2	-	C 3	C 4							
N5566	14-16	354-356	Nov. 5	Oct. 30	Nov. 6	J 2	-	-	-	C 3	-	J 3	C 4							

S5000	26	89-90	-	Oct. 4	Oct. 5							J 3 J 2
S5001	16-19	73-81	-	Oct. 4	Oct. 5							B13 C 5
S5002	16-20	63-68	Oct. 4	Oct. 4	Oct. 9					J 2	D 9	- - - J 3
S5003	20-21	60-61	Oct. 4	Oct. 4	Oct. 4					J 3		
S5004	9-12	49-56	Oct. 4	Oct. 4	Oct. 5					D 8	D12	
S5005	7-19	4-8	Oct. 8	Oct. 4	Oct. 10					J 2 J 2	- - -	C 3 J 2
S5006	11-13	343-354	Oct. 9	Oct. 5	Oct. 10					J 2	- - -	C16 C 6
S5007	27	338-342	Oct. 10	Oct. 9	Oct. 10						C 4	A 2
S5008	30-33	308-309	-	Oct. 9	Oct. 9							
S5009	16	346	-	Oct. 10	Oct. 10					A 2		
S5010	13	334	-	Oct. 13	Oct. 13							A 1
S5011	14-20	244-258	Oct. 17	Oct. 13	Oct. 21							A 1
S5012	23-25	222-231	Oct. 18	Oct. 13	Oct. 23					G14 G20 G25	- G20	E28 - C13 J 2
S5013	22-31	203-214	Oct. 20	Oct. 14	Oct. 26	J 2	C 5	D 5	- C 6	J 2	-	J 3 J 2 A 1 A 1
S5014	17-20	292-299	-	Oct. 15	Oct. 18	H10	H 9	- H21	H35	- H39	H41	H27 H22 D20 E22 E10
S5015	14-15	276-280	Oct. 15	Oct. 15	Oct. 18							A 3 - D 8 C 7
S5016	12-17	202-213	Oct. 20	Oct. 15	Oct. 26					J 4	- B 5 B 2	
S5017	20-22	179	Oct. 22	Oct. 17	Oct. 24					C 3 - C11	D15 - E23	E21 G20 E30 E32 E23 D 7
S5018	25	180	-	Oct. 20	Oct. 20					J 2 J 2	- J 5 J 4	J 3 J 4 A 3
S5019	19-22	122-131	Oct. 26	Oct. 20	Oct. 30						A 1	
S5020	15-17	219-223	-	Oct. 21	Oct. 24	J 2	C10	D14	D16	D14	D17	C 9 C 5 C 5 C 4 J 2
S5021	17	129	-	Oct. 21	Oct. 22							C 9 C 4 .. A 1
S5022	11-14	115-121	Oct. 27	Oct. 22	Oct. 29							
S5023	13	164	Oct. 23	Oct. 23	Oct. 23					B 2	C 7 D11 D13 D 7	C 8 A 2 A 1
S5024	12	91	-	Oct. 24	Oct. 25							A 1
S5025	24-25	94-96	Oct. 28	Oct. 27	Oct. 29							
S5026	28-29	60-64	-	Oct. 27	Oct. 29							A 1 A 1
S5027	11-12	62-63	-	Oct. 28	Oct. 28							A 3 J 2 A 1
S5028	9-11	96-101	-	Oct. 29	Oct. 30							
S5029	15-17	2-10	Nov. 4	Oct. 29	Nov. 6							D 7 D10
						J 2	G 4	- - -	C 3	-	J 3	J 2

TABLE OF SUNSPOT GROUPS

NOVEMBER 1939

Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side		C.M.	W-Side	
Group No.	Latitude				Longitude				
N5567	15	43	-	Nov. 3	Nov. 3			A 1	
N5568	13-15	23-28	Nov. 3	Nov. 3	Nov. 6		D13	- C 4 A 1	
N5569	18	10	-	Nov. 3	Nov. 3			A 1	
N5570	13-135	19-328	Nov. 7	Nov. 3	Nov. 11			C21 - H25 H21	- - - C10 A 2
N5571	10-153	07-319	Nov. 8	Nov. 3	Nov. 11		B 3	- B 9 C19	- - - E34 E26
N5572	11+122	98-300	Nov. 9	Nov. 5	Nov. 10			J 4 J 4	- - - J 2
N5573	17-202	34-301	Nov. 10	Nov. 5	Nov. 11		D14, D18	- - - F47 F59	
N5574	21-222	75-282	Nov. 11	Nov. 10	Nov. 11			C 4 A 1	
N5575	19-202	73-275	Nov. 11	Nov. 10	Nov. 11			A 1 J 4	
N5576	26	265	-	Nov. 10	Nov. 11			J 2 J 2	
N5577	10-152	47-259	Nov. 13	Nov. 10	Nov. 11			E21 E23	- - - - - J 4
N5578	12-142	41-245	-	Nov. 10	Nov. 11			B 2 C10	
N5579	27	147	Nov. 21	Nov. 19	Nov. 22			J 3 J 2	J 2 A 1
N5580	8-121	21-129	Nov. 22	Nov. 19	Nov. 26			D14, D26 D20	D29 - D22 D14 D12
N5581	9-221	16-125	Nov. 23	Nov. 19	Nov. 26			C 8 D10 D14 D15	- E22 C20 E13
N5582	20	90	Nov. 25	Nov. 20	Nov. 25			A 1 A 1 A 1	- - - A 1
N5583	23-23	73-82	Nov. 26	Nov. 20	Dec. 2		H 6 H 8 H10	- H12 C26	H28 - - - C14 C12 H 6
N5584	40-43	63-71	Nov. 27	Nov. 22	Dec. 1		J 2	- D 6 D 9 C 5	- - - J 5 J 5
N5585	17-13	84-88	Nov. 25	Nov. 24	Nov. 25			A 2 B 5	
N5586	20	91	-	Nov. 24	Nov. 24			A 1	
N5587	25-27	61-65	-	Nov. 24	Nov. 25			B 3 B 2	
N5588	15-21	30-35	Nov. 30	Nov. 24	Dec. 6		J 4 D 6 H 5	- - - H20	H17 H14 - H12 D 9 A 1
N5589	22	25	-	Nov. 25	Nov. 25			A 1	
N5590	18	25	-	Nov. 25	Nov. 25			A 1	
N5591	13-16	22-27	Nov. 30	Nov. 30	Dec. 2			C12	C 8 B 2
N5592	8-123	53-359	Dec. 2	Nov. 30	Dec. 7			C 5 D16	D11 - D11 C14 C12 J 3
N5593	8-133	22-331	Dec. 5	Nov. 30	Dec. 7			J 2 B 4 A 4	- C10 C14 D21 C26
N5594	10	318	-	Nov. 30	Dec. 2			A 1 A 1 A 1	
N5595	15-133	03-307	Dec. 6	Nov. 30	Dec. 11		J 2 H 3 H 3	- H 5 H 6	H 6 H 3 - - - J 2
S5030	14	59	-	Nov. 3	Nov. 5				A 1 J 3
S5031	13-15	27-31	Nov. 3	Nov. 3	Nov. 6			B 2	- B 3 C 4

S5032	17-135	49-350	Nov. 5	Nov. 3	Nov. 11		D 6	-	J 2	-	-	-	C 4	C 3		
S5033	14	355	Nov. 5	Nov. 5	Nov. 5				A 1							
S5034	4-6	535-339	Nov. 6	Nov. 5	Nov. 11				B 4	D 9	-	-	C 6	J 2		
S5035	13-22	213-222	Nov. 15	Nov. 10	Nov. 20		B 5	C 10	-	-	-	-	B 4	J 2		
S5036	24-26	204-213	-	Nov. 10	Nov. 11	A 2	D 7									
S5037	22-20	100-200	-	Nov. 19	Nov. 22						D 30	E 31	D 22	D 10		
S5038	5-11	139-144	Nov. 21	Nov. 19	Nov. 25		D 15	D 21	D 20	C 15	-	C 3	A 1			
S5039	12-14	117-122	Nov. 23	Nov. 21	Nov. 26		J 2	J 2	-	D 7	B 5	B 4				
S5040	17-18	83-84	Nov. 26	Nov. 21	Nov. 26	A 1	..	..	..	A 2				
S5041	10-12	65-68	Nov. 27	Nov. 21	Dec. 2	J 2	J 2	-	J 2	C 4	C 6	-	J 2	J 2	A 1	
S5042	12	97-93	Nov. 25	Nov. 22	Nov. 26		D 4	-	B 5	B 2	A 1					
S5043	8	97	-	Nov. 24	Nov. 24					A 1						
S5044	13-15	64-71	Nov. 27	Nov. 24	Dec. 1		B 5	C 12	D 13	-	-	-	J 4	J 2		
S5045	2-3	05-100	Nov. 25	Nov. 25	Dec. 1					A 6	D 23	-	-	G 10	F 8	
S5046	16-27	357-5	Dec. 2	Nov. 26	Dec. 7	A 2	-	-	C 23	D 23	C 15	-	C 9	C 5	C 5	A 1
S5047	13	35-39	-	Nov. 30	Dec. 5						A 1	..	C 6	-	..	A 1
S5048	15-17	336-341	Dec. 4	Nov. 30	Dec. 7		D 9	D 9	C 4	-	C 3	C 3	J 2	J 2		

TABLE OF SUNSPOT GROUPS

DECEMBER 1989

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	W-Side	C.M.	W-Side
	Latitude	Longitude						
N5596	20	22-24	-	Dec. 1	Dec. 2			A 1 A 2
N5597	15-21	277-283	Dec. 8	Dec. 2	Dec. 13	C 4 - H25 H34 H36 H27	-	- - C15 - D 4
N5598	25	1	-	Dec. 4	Dec. 5			A 1 A 1
N5599	13	317	-	Dec. 4	Dec. 4			A 1
N5600	14-15	297-301	-	Dec. 4	Dec. 5			A 1 B 2
N5601	15	299-293	Dec. 7	Dec. 5	Dec. 7			B 2 A 1 J 2
N5602	10-12	233-246	Dec. 11	Dec. 5	Dec. 13	C 3 D10 D11 - - -	D15	- J 2
N5603	21	299	-	Dec. 6	Dec. 6			A 1
N5604	24-25	327-332	-	Dec. 7	Dec. 7			C 6
N5605	10	314	-	Dec. 7	Dec. 7			A 1
N5606	13-15	235-238	Dec. 11	Dec. 11	Dec. 13			A 1 - A 4
N5607	13-15	191-196	-	Dec. 11	Dec. 13	D 7 - - D 9		
N5608	20	264	-	Dec. 13	Dec. 13			A 1
N5609	25	148	-	Dec. 13	Dec. 16	J 2 - - J 2		
N5610	9-13	134-147	Dec. 19	Dec. 13	Dec. 23	D 5 - - E18 - -		C 5 - - J 3
N5611	17-21	115-120	Dec. 20	Dec. 16	Dec. 23	C 7 - - -	D16	- - D13
N5612	16-19	97-104	Dec. 22	Dec. 16	Dec. 23	A 1 - - - C 8 -		C 5
N5613	31-34	191-202	-	Dec. 23	Dec. 29			E 8
N5614	23-24	59-60	-	Dec. 29	Dec. 23	J 2 - - J 3		
N5615	17	89	Dec. 23	Dec. 23	Dec. 23			A 1
N5616	20-24	4-12	Dec. 29	Dec. 23	Jan. 4	D17 - - - -		- - D22 - H 9 C 4
S5049	28	329-331	-	Dec. 1	Dec. 1			A 2
S5050	15-18	308-313	Dec. 6	Dec. 1	Dec. 7	A 1 C 4 - C 5 C 6	J 3	C 7
S5051	9-12	2-11	-	Dec. 4	Dec. 7			D11 C 9 D12 C 6
S5052	17	238	-	Dec. 6	Dec. 7	J 2 J 2		
S5053	11-12	331-336	-	Dec. 7	Dec. 7			D11
S5054	9-11	215-217	Dec. 13	Dec. 7	Dec. 16	J 2 - - - C 6 -	C 5	- - J 2
S5055	15	257-258	-	Dec. 11	Dec. 11			A 1
S5056	23	221	-	Dec. 11	Dec. 11			J 2
S5057	19	221	-	Dec. 11	Dec. 11			A 1
S5058	6-7	210-211	Dec. 13	Dec. 13	Dec. 13			A 3
S5059	20-21	162-167	-	Dec. 13	Dec. 16	D 7 - - C 4		

S5060	10-12	137-198	-	Dec.16	Dec.16						A 2
S5061	37	128-132	-	Dec.16	Dec.16						
S5062	6-9	95-103	Dec.22	Dec.16	Dec.23	J 3	-	-	B.2	C 9	C 8
S5063	8-11	49-57	-	Dec.20	Dec.23					C 5	G 13
S5064	30-32	103-108	-	Dec.23	Dec.23						D 6
S5065	11-15	95-98	-	Dec.23	Dec.23						A 7
S5066	10	90	-	Dec.23	Dec.23						A 1
S5067	45	83	Dec.23	Dec.23	Dec.23						A 1
S5068	23-26	80-83	Dec.23	Dec.23	Dec.23						A 4
S5069	13	48	-	Dec.23	Dec.23						
S5070	25-30	19-32	Dec.27	Dec.23	Jan. 3				A..1		
S5071	12	20	Dec.28	Dec.23	Jan. 1	J 4	-	-	D 7		E28 - B 5
S5072	8	18	-	Dec.23	Dec.23	J 2					A 1
S5073	14	11	-	Dec.23	Dec.23	J 2					
S5074	8-10	0-2	Dec.29	Dec.23	Jan. 4	J 2	-	-			J 5 - J 4 J 2